INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/36035

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B32B 15/04; F03B 3/12; B29C 9/00; C23C 8/00, 16/00; US CL : 428/ 623,629,633,698,679,680,141; 427/567,566,585,596,255.32,255.36; 118/723EB,726; 416/241B,241R According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 428/ 623,629,633,698,679,680,141; 427/567,566,585,596,255.32,255.36; 118/723EB,726; 416/241B,241R			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap		Relevant to claim No.
Y,P	US 6,589,351 B1 (BRUCE et al) 8 July 2003 (08.07.2003) entire document.		1-71
Y	US 6,054,184 A(BRUCE et al) 25 April 2000 (25.04.2000) entire document.		1-71
Y	US 5,534,314 A(WADLEY et al) 09 July 1996 (09.07.1996), entire document.		1-71
Y	US 5,736,073 A(WADLEY et al) 07 April 1998 (07.04.1998), entire document.		1-71
х 	US 5,419,971 A (SKELLY et al) 30 May 1995 (30.05.1995) entire document.		1,4,16,17,58,61- 65,69,70
$\frac{\mathbf{x}}{\mathbf{y}}$	US 5,683,825 A (BRUCE et al) 04 November 1997	(11.04.1997), entire document.	2,3,5-15,18- 29,59,60,66-68,71 1,4,58,64,65,69,70 2,3,5-15,19- 29,56,60,66-68,71
Further documents are listed in the continuation of Box C. See patent family annex.			
Special categories of cited documents:		"T" later document published after the inte	mational filing date or priority
"A" document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone	
		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"O" document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in th	e art
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search report A F A DD 2004	
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		Authorized officer Deborah Jones Telephone No. 703 308 9661	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. 703-308-0661	

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